



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION IV
1600 EAST LAMAR BOULEVARD
ARLINGTON, TEXAS 76011-4511

August 04, 2022

Mr. Joseph Sullivan, Site Vice President
Arkansas Nuclear One
Entergy Operations, Inc.
N-TSB-58
1448 S.R. 333
Russellville, AR 72802-0967

**SUBJECT: ARKANSAS NUCLEAR ONE – INTEGRATED INSPECTION
REPORT 05000313/2022002 AND 05000368/2022002 AND
INDEPENDENT SPENT FUEL STORAGE INSTALLATION INSPECTION
REPORT 07200013/2022001**

Dear Mr. Sullivan:

On June 30, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Arkansas Nuclear One. On July 14, 2022, the NRC inspectors discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

A handwritten signature in black ink, appearing to read "John L. Dixon, Jr.".

Signed by Dixon, John
on 08/04/22

John L. Dixon, Jr., Chief
Projects Branch D
Division of Operating Reactor Safety

Docket Nos. 05000313, 05000368, and 07200013
License Nos. DPR-51 and NPF-6

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

ARKANSAS NUCLEAR ONE – INTEGRATED INSPECTION REPORT 05000313/2022002
AND 05000368/2022002 AND INDEPENDENT SPENT FUEL STORAGE INSTALLATION
INSPECTION REPORT 07200013/2022001

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DOCUMENT NAME: Arkansas Nuclear One (2nd Quarter) Inspection Report 2022-002

ADAMS ACCESSION NUMBER: **ML22208A128**

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers: 05000313, 05000368, and 07200013

License Numbers: DPR-51 and NPF-6

Report Numbers: 05000313/2022002, 05000368/2022002, and 07200013/2022001

Enterprise Identifier: I-2022-002-0005 and I-2022-001-0004

Licensee: Entergy Operations, Inc.

Facility: Arkansas Nuclear One

Location: Russellville, AR

Inspection Dates: April 1 to June 30, 2022

Inspectors: L. Brookhart, Senior Spent Fuel Storage Inspector
N. Brown, Resident Inspector
R. Bywater, Senior Resident Inspector
W. Cullum, Reactor Inspector
T. DeBey, Resident Inspector
J. Freeman, Project Engineer
D. Reinert, Reactor Inspector
A. Sanchez, Senior Project Engineer
W. Sifre, Senior Reactor Inspector

Approved By: John L. Dixon, Jr., Chief
Projects Branch D
Division of Operating Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at Arkansas Nuclear One, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

PLANT STATUS

Unit 1 operated at or near full power for the entire inspection period.

Unit 2 began the inspection period at full power. On June 24, 2022, Unit 2 operators manually tripped the A main feedwater pump in response to an electrohydraulic control fluid leak on the pump turbine, which stopped the leak and initiated a turbine runback. Operators stabilized Unit 2 at approximately 77 percent power. Following completion of corrective maintenance and extent-of-condition inspections on both main feedwater pumps, the unit was returned to full power on June 25, 2022. Unit 2 remained at or near full power for the remainder of the inspection period.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors performed activities described in IMC 2515, appendix D, "Plant Status," observed risk-significant activities, and completed on-site portions of IPs. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

REACTOR SAFETY

71111.04 - Equipment Alignment

Partial Walkdown Sample (IP Section 03.01) (5 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Unit 1, emergency diesel generator A, after a failure of an air start motor on the north air bank on April 11, 2022
- (2) Unit 1, high-pressure injection system A realignment verification following planned system maintenance, on April 24, 2022
- (3) Unit 2, service water system loop 2, during service water pump B preventive maintenance on May 12, 2022
- (4) Unit 1, service water system loop 2, during a planned circulating water bay C outage on May 17, 2022
- (5) Unit 1 and Unit 2, backup fire water supply, during a planned motor-driven fire pump A maintenance outage on May 19, 2022

Complete Walkdown Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated system configurations during a complete walkdown of the Unit 1, emergency feedwater train B, on June 17, 2022.

71111.05 - Fire Protection

Fire Area Walkdown and Inspection Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) Unit 1, diesel generator A room, fire zone FZ-1032, on April 11, 2022
- (2) Unit 2, control element drive mechanism equipment room, fire zone 2154-E on April 18, 2022
- (3) Unit 1, radwaste processing area, fire zone 20-Y, on May 13, 2022

71111.11Q - Licensed Operator Regualification Program and Licensed Operator Performance

Licensed Operator Performance in the Actual Plant/Main Control Room (IP Section 03.01) (2 Samples)

- (1) The inspectors observed and evaluated licensed operator performance in the control room during Unit 2 trip circuit breaker testing on April 28, 2022.
- (2) The inspectors observed and evaluated licensed operator performance in the control room during Unit 2 power ascension, control element assembly movements, boration/dilution, nuclear instrumentation calibration, shift turnover, and Midcontinent Independent System Operator conservative operations order on June 25, 2022.

Licensed Operator Regualification Training/Examinations (IP Section 03.02) (2 Samples)

- (1) The inspectors observed and evaluated Unit 1 simulator regualification training with scenarios for: (1) loss of all neutron flux (nuclear) instrumentation, and (2) loss of control room "non-nuclear" instrumentation on April 27 and 28, 2022.
- (2) The inspectors observed and evaluated Unit 2 simulator regualification training with scenarios for: (1) steam generator tube rupture, and (2) loss of feed water on May 4-5, 2022.

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management Sample (IP Section 03.01) (6 Samples)

The inspectors evaluated the accuracy and completeness of risk assessments for the following planned and emergent work activities to ensure configuration changes and appropriate work controls were addressed:

- (1) Unit 1, elevated risk due to removing emergency diesel generator A from service for air start motor inspection, on April 11, 2022
- (2) Unit 2, elevated risk due to placing control element assembly motor-generator set 2 in service following maintenance, on April 15, 2022
- (3) Unit 1, and Unit 2 elevated risk due to removing startup transformer 2 from service for preventive maintenance, on May 9, 2022
- (4) Unit 2, elevated risk resulting from loss of power to non-essential safety feature motor control center 2B-35 during control element assembly exercise testing on, May 15, 2022

- (5) Unit 1 and Unit 2, planned and emergent activities during Midcontinent Independent System Operator conservative operations order, on June 21-24, 2022
- (6) Unit 1 and Unit 2, emergent activities following spent fuel crane L-3 band brake actuation during spent fuel cask handling activities, on June 25, 2022

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (7 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) Unit 1, emergency diesel generator A operability determination due to air start motor failure, on April 13, 2022
- (2) Unit 2, core operating limits supervisory system operability determination due to multiplexer failure, on June 16, 2022
- (3) Unit 1, emergency feedwater pump B suction piping due to insufficient fastener thread engagement, on June 21, 2022
- (4) Unit 2, emergency feedwater pump A operability determination due to low steam admission motor operated valve closing thrust on June 22, 2022
- (5) Unit 2, startup transformer 3 operability determination due to submerged underground cables, on June 22, 2022
- (6) Unit 1, emergency diesel generator B operability determination to check for common cause failure potential due to inoperable emergency diesel generator A, on June 27, 2022
- (7) Unit 2, emergency diesel generator B operability determination due to indication of degraded fuel in fuel storage tank 2T-57B, on June 28, 2022

71111.17T - Evaluations of Changes, Tests, and Experiments

Sample Selection (IP Section 02.01) (37 Samples)

The inspectors reviewed the following evaluations, screenings, and/or applicability determinations for 10 CFR 50.59 from May 16-19, 2022:

- (1) engineering change (EC)-83562, Refuel Machine Upgrade 2H-1
- (2) EC-50092, Room 72 Equipment/Floor Drain Flood Mitigation
- (3) EC-89288, Temporary Modification to Provide COLSS 'B' RCP Speed Signal to 'D' CPC
- (4) EC-83032, Turbine Control System Upgrades for Main Turbine and Main Feed Pump Turbine Digital Electro-Hydraulic Control
- (5) EC-84175, Safety Injection Nozzle Thermal Sleeve
- (6) EC-84333, Buried SW and ECP Pipe Minimum Wall and Finite Element Thinning Handbook Analysis for HBD-14-18, HBD-20-18, HBD-12-36, 2HBC-33-20, 2HBC-34-20, 2HBC-88-42, and 2HBC-83-30
- (7) EC-84685, Seismic Qualification Review for Rosemount 3154N Series Transmitters in U1 and U2, Revise CALC-91-E-121-187 (CR-ANO-C-2019-04110)
- (8) EC-89581, Correct 2TB401(2TB402) Loading in CALC-974603P201-03 and CALC-974603P201-04, REF CR-ANO-2-2020-03706
- (9) EC-87059, Update Calculation CALC-6600-2-1024 to Increase SIF at FW2 and FW3 on 2HCB-17-1 Piping, REF CR-ANO-2-2020-00177

- (10) EC-89877, Revise CALC-88-E-0074-01 to Determine the Maximum Tube Plugging Value for E-20A-1/A-2/B-1/B-2 SW HWS for K-4A and K-4B EDG. Support for Operability Eval/Input for CR-ANO-1-2021-01170
- (11) EC-88144, CR-ANO-1-2020-00507 CA-7, Update CALC-84-D-1069-02 to Account for Load Addition for C117 Panel
- (12) EC-78565, Enhancement of Beam B-5 with Post-Tensioning - Markup CALC-72 REF CR-ANO-C-2018-02608
- (13) EC-78729, 1R28 - ANO-1 Bottom-Mounted Nozzle Peening Mitigation of Pressurized Water Stress Corrosion Cracking Via Surface Stress Improvement Completion of Inner Diameter Scope
- (14) EC-81296, Service Water Intake Piping Replacement for 1HBD-20-18" - Seismic Evaluation for ECR 23231 and WO 498019
- (15) EC-83130, Contingency Engineering Change for Potential Liner Plate Repairs in the Unit 1 Reactor Building in 1R28
- (16) EC-84685, Seismic Qualification Review for Rosemount 3154N Series Transmitters in U1 and U2, Revise CALC-91-E-121-187 (CR-ANO-C-2019-04110)
- (17) EC-86428, Evaluation of Indications on Pressurizer Spray Line Piping (Reference condition reports CR-ANO-2-2020-1081, 1174, 1375, 1381, AND 1454)
- (18) EC-85345, Evaluate / Issue Revised ANO1 Emergency Diesel Generator Transient Analysis Calculation
- (19) EC-85377, Update Applicable Calculations and Drawings as a Result of CR-ANO-1-2019-03259, Pressurizer Heaters Loading
- (20) EC-83454, Replace Unit 1 Emergency Diesel Generator Room Ventilation Fans (VEF-24A/B/C/D) with New Fans Capable of Achieving the Appropriate Design Flow (Correcting OP-Comp-measure, CR-ANO-1-2018-05007)
- (21) EC-83495, New Design Basis/Sizing Calculation for Replacement of the Unit 1 Emergency Diesel Generator Room Exhaust Fans (VEF-24A/B/C/D) and Issue New Design Specification
- (22) EC-75937, Evaluate Manual Reactor Coolant System Flow Calculation Performed Using COLSS Pump Differential Pressure Methods
- (23) EC-82184, Revise Pressure Transmitter CALC-88-E-0200-21 - ANO-2 Emergency Diesel Generator Fuel Oil & Start Air System and Motor Operated Valve CALC-V-2CV-5649-10, CALC-V-2CV-5650-10, CALC-93-R-0010-01 and Service Water Flow CALC-93-E-0057-07 reference CR-2-2019-452, CR-2-2019-566
- (24) EC-85843, 2CV-1562-2 Torque and Thrust Setup Calculation Engineering Evaluation
- (25) EC-92433, 2X-01B Leaking Valve and Maintain Valve in Open Position
- (26) EC-84126, Evaluate Adjusting D-07 Battery Cells' Electrolyte Concentration to Address the Condition Identified in CR-ANO-1-2019-00010
- (27) EC-84690, Revise CALC-90-E-0116-07 and CALC-95-E-0078-11 in Response to CR-ANO-C-2014-03332-CA-3
- (28) EC-79288, Design Equivalent Change to Replace VUC42A and B
- (29) EC-84884, Repair Essential Feedwater CV-2617 Motor Operated Valve Cable
- (30) EC-83800, Force CV-2663 into Auto by Removing Fuses F10 and F11 in C09
- (31) EC-84912, CALC-86-E-0002-01 - UNIT 1 Emergency Diesel Generator Load Calculation Revision 21
- (32) EC-86945, 2020 Offsite Power Study & Transient Analysis Engineering Report
- (33) EC-90026, Evaluation of the Results of the 1R29 Service Water Flow Test for Service Water Flow Bi-Weekly Acceptance Curves on Reactor Building Cooling Units
- (34) EC-76734, Provide Temporary Flood Protection Devices for ANO-2 Essential Feedwater Floor Drains 2TBS-43 AND 2TBS-44. (Contract 10474647-00021-04 TASK 344)

- (35) EC-84098, Updated Holtec Fire Hazards Analysis (FCR TO EC 81303)
- (36) EC-88278, Temporary Cooling for CEDMCS Room 2154 WO 532978
- (37) EC-84449, NAOH to NATB Safety System Modification

71111.18 - Plant Modifications

Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (1 Sample)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Unit 2, temporary modification to plant computer room cooling to allow maintenance on normal cooling unit, on June 22, 2022

71111.19 - Post-Maintenance Testing

Post-Maintenance Test Sample (IP Section 03.01) (6 Samples)

The inspectors evaluated the following post-maintenance testing activities to verify system operability and/or functionality:

- (1) Unit 1, emergency diesel generator A testing following air start motor replacement, on April 14, 2022
- (2) Unit 1, high pressure safety injection pump C testing following scheduled preventive maintenance activities, on April 20, 2022
- (3) Unit 2 emergency feedwater to steam generator motor operated valve A testing following preventive maintenance activities, on June 22, 2022
- (4) Unit 2 emergency feedwater to steam generator motor operated valve B testing following preventive maintenance activities, on June 22, 2022
- (5) Unit 1 emergency diesel generator B testing following fuel oil leak and replacement of valve and fittings, on June 29, 2022
- (6) Unit 1 and Unit 2, spent fuel crane manual lowering operation following troubleshooting activities, on June 30, 2022

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance testing activities to verify system operability and/or functionality:

Surveillance Tests (other) (IP Section 03.01) (4 Samples)

- (1) Unit 1, emergency feedwater initiation and control channel C monthly test, on April 5, 2022
- (2) Unit 1, engineered safeguards actuation system digital channel 1 monthly test, on April 6, 2022
- (3) Unit 1, emergency diesel generator B monthly test, on April 24, 2022
- (4) Unit 1, emergency diesel generator A monthly test, on June 27, 2022

Inservice Testing (IP Section 03.01) (2 Samples)

- (1) Unit 2, inservice testing of containment spray train B recirculation valve 2CV-5672-1, and containment spray header train B valve 2CV-5613-2, on April 14, 2022

- (2) Unit 1, inservice testing of turbine-driven emergency feedwater pump A, on April 20, 2022

FLEX Testing (IP Section 03.02) (1 Sample)

- (1) Functional test of FLEX pump P-261, on May 11, 2022

OTHER ACTIVITIES – BASELINE

71152A - Annual Follow-up Problem Identification and Resolution

Annual Follow-up of Selected Issues (Section 03.03) (2 Samples)

The inspectors reviewed the licensee's implementation of its corrective action program related to the following issues:

- (1) Unit 1, response to failure to meet local leak rate testing program administrative limits for personnel airlock door seal leakage, on May 4, 2022
- (2) Unit 1 and Unit 2, evaluation of temporary firewater pump usage for non-fire water purposes, on June 30, 2022

71153 - Follow Up of Events and Notices of Enforcement Discretion

Personnel Performance (IP Section 03.03) (2 Samples)

- (1) The inspectors evaluated the licensee's performance during heightened security awareness, on April 14, 2022.
- (2) The inspectors evaluated the licensee's performance following manual trip of Unit 2, main feedwater pump A, turbine runback, and rapid power reduction to 77 percent power in response to an electrohydraulic fluid leak, on June 24, 2022.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

60855 - Operation of an ISFSI

The inspectors performed a review of the licensee's independent spent fuel storage installation (ISFSI) activities to verify compliance with requirements of the Certificate of Compliance 72-1014, License Amendment 13 and the HI-STORM Final Safety Analysis Report (FSAR), revision 18. The inspectors reviewed selected procedures, corrective action reports, and records to verify ISFSI operations were compliant with the Certificate's technical specifications, requirements in the FSAR, and NRC regulations.

Operation of an ISFSI (1 Sample)

- (1) Inspectors evaluated the licensee's dry cask storage operations from May 23-26, 2022, during an on-site inspection. The ANO ISFSI consisted of two different cask designs. ANO had loaded 24 canisters of the Energy Solutions ventilated storage cask (VSC), VSC-24 design, (Certificate of Compliance (CoC) No. 1007) from 1996 to 2003. Since that time, ANO had been loading HI-STORM 100S version C overpacks containing either a multi-purpose canister (MPC)-24 or MPC-32 design. At the time of the routine inspection, the HI-STORM-100 ISFSI pads

contained a total of 75 overpacks and the licensee was in the process of loading canister 76.

During the on-site inspection, the inspectors evaluated and observed the following activities:

- de-stacking operations after downloading of canister at the cask transfer facility
- placement of the HI-STORM 100 overpack lid for Holtec cask No. 75
- walkdown of the VSC-24 ISFSI and Holtec HI-STORM 100 ISFSI
- Holtec canister No. 76 prep activities and lid fit up operations
- placement of the HI-TRAC transfer cask with Holtec canister No. 76 into spent fuel pool
- loading and verification of spent fuel into canister No. 76
- heavy load lifts using the cask handling crane to place the canister lid, while under water in spent fuel pool cask loading pit

The inspectors reviewed and evaluated the following documentation during the inspection:

- fuel selection evaluations for the canisters loaded since the last NRC ISFSI inspection (canisters 69 - 76)
- radiation surveys for radiological dose at the owner-controlled boundary to verify compliance with the requirements of 10 CFR 72.104 for years 2019 - 2021
- selected ISFSI-related condition reports issued since the last NRC ISFSI inspection
- quality assurance program implementation, including recent audits, surveillances, receipt inspection, and quality control activities related to ISFSI operations
- compliance to technical specifications for operational surveillance activities and FSAR required annual maintenance activities
- documentation of annual maintenance activities for the site's cask handling crane, vertical cask transporter, and special lifting devices
- selected licensee design changes and program changes to the ISFSI performed under the site's 10 CFR 72.48 program
- no changes had been made by the licensee to the site's 10 CFR 72.212 evaluation report since the last inspection, it remained at revision 12.

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On May 19, 2022, the inspectors presented the evaluations of changes, tests, and experiments inspection results to Mr. J. Sullivan, Site Vice President, and other members of the licensee staff.

- On June 1, 2022, the inspectors presented the triennial independent spent fuel storage installation fuel loading inspection results to Mr. J. Sullivan, Site Vice President, and other members of the licensee staff.
- On July 14, 2022, the inspectors presented the integrated inspection results to Mr. J. Sullivan, Site Vice President, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
60855	Engineering Evaluations	EC 45077	ANO LPT Technical Report	2
60855	Miscellaneous	72.212	ANO 10 CFR 72.212 Report	12
60855	Miscellaneous	CoC 72-1014	Certificate of Compliance and Technical Specifications A/B	Amendment 13
60855	Miscellaneous	FSAR	Holtec HI-STORM 100 Final Safety Analysis Report	18
60855	Procedures	3403.005	HI-STORM 100 System Loading Operations	48
60855	Procedures	3403.008	HI-TRAC and MPC Preparations for Fuel Loading	8
60855	Procedures	3406.005	HI-STORM and HI-TRAC Transport Operations using VCT, LPT, and Railcar	21
60855	Procedures	3406.006	Forced Helium Dehydration System Operations	19
60855	Procedures	EN-MA-119	Material Handling Program	37
71111.04	Corrective Action Documents	CR-ANO-	1-2021-02543, 1-2022-00189, 1-2022-00606, 1-2022-00971, 1-2022-00972, 1-2022-00973, 1-2022-00981, 2-2022-00930, 2-2022-00932	
71111.04	Drawings	FZ-1049	Radwaste Processing Area	4
71111.04	Drawings	M-204, Sheet 3	Emergency Feedwater	37
71111.04	Drawings	M-204, Sheet 5	Emergency Feedwater Storage	18
71111.04	Drawings	M-209, Sheet 1	Circ. Water, Service Water & Fire Water Intake Structure Equipment	115
71111.04	Drawings	M-219, Sheet 1	Fire Water	91
71111.04	Drawings	M-2210, Sheet 1	Service Water System	93
71111.04	Drawings	M-2210, Sheet 2	Service Water System	86
71111.04	Drawings	M-2219, Sheet 5	Unit One/Unit Two Outside Fire Water Loop	54
71111.04	Miscellaneous		Unit 1 Narrative Log	05/19 - 20/2022
71111.04	Miscellaneous	ULD-1-SYS-02	Makeup and Purification/High Pressure Injection System	6
71111.04	Procedures	1203.048	Security Event	40
71111.04	Procedures	EN-IS-120	Motorized Vehicle Safety	12
71111.04	Procedures	OP-1104.029	Service Water and Auxiliary Cooling Water System	126
71111.04	Procedures	OP-1104.032	Fire Protection Systems	94
71111.04	Procedures	OP-1104.036	Emergency Diesel Generator Operation	87

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.04	Procedures	OP-1106.006	Emergency Feedwater Pump Operation	19
71111.04	Procedures	OP-2104.029	Service Water System Operations	123
71111.04	Work Orders	WO	50237899, 53001481	
71111.05	Corrective Action Documents	CR-ANO-	1-2022-00614, 2-2021-00098, 2-2021-00665, 2-2022-00433	
71111.05	Drawings	FZ-1032	Fire Zone Detail No. & So. Diesel Generator. Room	3
71111.05	Drawings	FZ-2154-E	Fire Zone Detail CEDM Equipment Room	4
71111.05	Miscellaneous	ANO2-TRM	Technical Requirements Manual, TRO 3.3.6	83
71111.05	Miscellaneous	TDS668 010	Safe Fire Detection Incipient Detection System Manuals	1
71111.05	Procedures	OP-1203.049	Fires in Areas Affecting Safe Shutdown	15
71111.05	Procedures	OP-2203.009	Fire Protection System Annunciator Corrective Action	36
71111.05	Procedures	OP-2307.040	Unit 2 Incipient Fire Instrumentation Operability	13
71111.05	Procedures	PFP-U1	Unit 1 Prefire Plans	21
71111.05	Procedures	PFP-U2	Unit 2 Prefire Plans	17
71111.11Q	Corrective Action Documents	CR-ANO-	1-2020-01607, 1-2021-03237, 2-2022-00814	
71111.11Q	Procedures	OP-1107.001	Electrical System Operations	131
71111.11Q	Procedures	OP-1202.001	Reactor Trip	41
71111.11Q	Procedures	OP-1203.001	ICS Abnormal Operation	18
71111.11Q	Procedures	OP-1203.021	Loss of Neutron Flux Indication	15
71111.11Q	Procedures	OP-1203.047	Loss of NNI Power	8
71111.11Q	Procedures	OP-2102.004	U2 Power Operation	73
71111.11Q	Procedures	OP-2304.037	Unit 2 Plant Protection System Channel A Test	55
71111.11Q	Procedures	OP-2305.051	U2 Operations Linear Power Adjustment	14
71111.11Q	Work Orders	WO	52976455, 52994148, 53006555	
71111.13	Corrective Action Documents	CR-ANO-	1-2022-00606, 2-2022-00673, 2-2022-01010, 2-2022-01019	
71111.13	Miscellaneous		Unit 1 Narrative Log	06/21-24/2022
71111.13	Miscellaneous		Unit 2 Narrative Log	06/21-24/2022
71111.13	Miscellaneous		Unit 1 Maintenance Schedule	06/21-24/2022

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.13	Miscellaneous		Unit 2 Maintenance Schedule	06/21-24/2022
71111.13	Procedures	1402.133	Operation of the Spent Fuel Crane L-3 Units 1 & 2	38
71111.13	Procedures	2105.009	CEDM Control System Operation	44
71111.13	Procedures	2107.009	Non-ESF Electrical Bus Outage	32
71111.13	Procedures	2202.001	Standard Post Trip Actions	19
71111.13	Procedures	2203.003	CEA Malfunction	27
71111.13	Procedures	COPD-024	Risk Assessment Guidelines	74
71111.13	Procedures	EN-DC-136	Temporary Modifications	21
71111.13	Procedures	EN-WM-104	Online Risk Management	23
71111.13	Work Orders	WO	577572	
71111.15	Corrective Action Documents	CR-ANO-	1-2022-00097, 1-2022-00606, 2-2018-02443, 2-2022-01096, 2-2022-01097, 2-2022-01198, 2-2022-01206	
71111.15	Drawings	M-217, Sheet 4	Emergency Diesel Generator K-4A/K-4B Starting Air System	9
71111.15	Miscellaneous	8003530-FA	Failure Analysis for EMD Air Start Motor	0
71111.15	Miscellaneous	COLR	ANO-2 Cycle 29 Core Operating Limits Report	0
71111.15	Miscellaneous	NPF-6	ANO-2 Technical Specification 4.2; Power Distribution Limits	315
71111.15	Miscellaneous	ULD-2-SYS-35	ANO-2 Core Operating Limit Supervisory System COLSS	5
71111.15	Procedures	OP-1000.113	Diesel Fuel Monitoring Program	17
71111.15	Procedures	OP-1001.008	Surveillance Frequency Control Program	9
71111.15	Procedures	OP-2105.013	COLSS Operations	42
71111.15	Procedures	OP-2106.006	Emergency Feedwater System Operations	108
71111.15	Procedures	OP-2203.043	Loss of COLSS	13
71111.15	Procedures	OP-2618.005	Sampling Unit 2 Diesel Fuel	22
71111.15	Work Orders	WO	52957518, 52972769	
71111.17T	Calculations	85-E-0055-02	ASME Class 1 & 2 Analysis for Pressurizer Piping 2CCA-13 thru 2CCA-16, 2CCA-38, and 2CCA-47	5
71111.17T	Calculations	86-E-0002-01	ANO-1 Diesel Generator #1 and #2 Load Study	22
71111.17T	Calculations	91-E-0121-187	Seismic Qualification Review Summary for Rosemount 3154N Series Pressure Transmitters	1
71111.17T	Calculations	91-R-2013-01	Service Water Performance Testing Methodology	29
71111.17T	Calculations	92-D-2003-01	ANO-2 Millstone Study - Control Circuit Voltage Drop	4
71111.17T	Calculations	92-E-0003-01	Emergency Diesel Generator Transient Loading Analysis -	0

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			Voltage and Frequency Profiles	
71111.17T	Calculations	974603P201-04	MILLSTONE Study - 2B53K3 and 2B63K5 Starter Coil Voltage Evaluation	1
71111.17T	Corrective Action Documents	CR-ANO-	1-2013-03023, 1-2018-00725, 1-2021-00270, 1-2021-00503, 1-2021-02144, 2-2020-00689, 2-2020-02701, 2-2020-02850, 2-2020-03649, 2-2020-03650, C-2013-03085, C-2019-04191	
71111.17T	Miscellaneous	1CAN102101	ANO Unit 1 SAR Amendment 30, TRM, TS Bases, 10 CFR 50.59 Report, and Commitment Change Summary Report	10/06/2021
71111.17T	Miscellaneous	2CAN051901	Amendment 28 to the ANO Unit 2 Safety Analysis Report, Arkansas Nuclear One, Unit 2, NRC Docket No. 50-368, Renewed Facility Operating License No. NPF-6	05/07/2019
71111.17T	Miscellaneous	NEI 96-07	Nuclear Energy Institute Guidelines for 10 CFR 50.59 Implementation	1
71111.17T	Procedures	2105.013	COLSS Operations	41
71111.17T	Procedures	EN-DC-115-01	Industry Standard Design Process (IP-ENG-001)	1
71111.17T	Procedures	EN-DC-115-02	Industry Standard Digital Engineering Process (NISP-EN-04)	0
71111.17T	Procedures	EN-LI-100	Process Applicability Determination	32
71111.17T	Procedures	EN-LI-101	10 CFR 50.59 Evaluations	21
71111.17T	Self-Assessments	LO-ALO-2021-00057	Pre-NRC Focused Self-Assessment for the NRC Inspection of 10 CFR 50.59 (IP 71111.17T)	01/06/2022
71111.18	Corrective Action Documents	CR-ANO-	2-2021-02385, 2-2021-03055, 2-2022-00134, 2-2022-01136	
71111.18	Engineering Changes	EC-12125	Evaluate Cooling Requirements for the MG Set Room and the CEDMC Room and Plant Computer Room	3
71111.18	Engineering Changes	EC-77497	Review of EC-12125 for Temporary Cooling of Rooms	0
71111.18	Miscellaneous	STM-2-47-3	Control Room Ventilation	26
71111.18	Procedures	OP-1105.010	Plant Computer Operation	30
71111.18	Procedures	OP-2203.012M	Annunciator 2K13 Corrective Action	28
71111.19	Corrective Action Documents	CR-ANO-	1-2020-01681, 1-2022-00098, 1-2022-00606, C-2022-01743	
71111.19	Miscellaneous		ODM Implementation Plan Template for CR-22-1743	06/30/2022
71111.19	Miscellaneous		Process Applicability Determination Form for OP-1402.133 Change 39	06/30/2022

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71111.19	Miscellaneous		Unit 2 Station Logs	06/22/2022
71111.19	Miscellaneous		2CV-1076-2 IST Data Collection	06/22/2022
71111.19	Miscellaneous		Unit 1 Station Logs	04/14/2022
71111.19	Procedures	1104.002	Makeup & Purification System Operation	101
71111.19	Procedures	1104.036	Emergency Diesel Generator Operation	87
71111.19	Procedures	1402.133	Operation of the Spent Fuel Crane L-3 Units 1 & 2	38
71111.19	Procedures	2106.006	Emergency Feedwater System Operation	108
71111.19	Work Orders	WO	551301, 565328-08, 52943160, 52966336, 52968078	
71111.22	Corrective Action Documents	CR-ANO-	1-2021-02411, 1-2021-02997, 1-2022-00352, 1-2022-00372, 2-2020-01991, 2-2021-02218, 2-2021-02442, 2-2021-03716, 2-2022-00064, 2-2022-00084, 2-2022-00093, 2-2022-00652, C-2022-01293, C-2022-01306	
71111.22	Drawings	M-204, Sheet 3	Emergency Feedwater	37
71111.22	Drawings	M-2236	Containment Spray	96
71111.22	Miscellaneous	COPD-030	ANO Reactivity Management Program	10
71111.22	Miscellaneous	EN-OP-115-14	Reactivity Management	1
71111.22	Procedures	EN-AD-106	Site Procedure Writer's Manual	2
71111.22	Procedures	EN-AD-106	Site Procedure Writer's Manual	2
71111.22	Procedures	EN-OP-201	Diverse and Flexible Coping Strategies (FLEX) Fleet Program Document	5
71111.22	Procedures	EN-OP-201-01	Arkansas Nuclear One FLEX Program Document	4
71111.22	Procedures	OP-1104.036	Emergency Diesel Generator Operation	88
71111.22	Procedures	OP-1106.006	Emergency Feedwater Pump Operation	118
71111.22	Procedures	OP-1107.01	Electrical System Operations	131
71111.22	Procedures	OP-1304.045	Unit 1 ESAS Digital Subsystem No. 1 Monthly Test	29
71111.22	Procedures	OP-1304.207	Unit 1 EFIC Channel C Monthly Test, SG Pressure Greater Than 750 PSIG	32
71111.22	Procedures	OP-2104.005	Containment Spray	93
71111.22	Work Orders	WO	413625-01, 52970335, 52994872-01, 53000464, 53000526, 53001481, 52994872, 52995606	
71152A	Corrective Action Documents	CR-ANO-	1-2018-05389, 1-2019-00031, 1-2019-00201, 1-2019-00436, 1-2019-00797, 1-2019-01047, 1-2019-02356, 1-2020-00832, 1-2020-01318, 1-2021-00442, 1-2021-03190, 1-2022-00068,	

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			1-2022-00216, C-2022-00913	
71152A	Miscellaneous	CEP-APJ-001	Primary Containment Leakage Rate Testing (10CFR50 Appendix J) Program Plan	6
71152A	Miscellaneous	ML14356A227	ANO Unit No. 2 - Issuance of Amendment Regarding Transition to a Risk-Informed, Performance-Based Fire Protection Program in Accordance With 10 CFR 50.48(c)	02/18/2015
71152A	Miscellaneous	ML16223A481	ANO Unit No. 1 - Issuance of Amendment Regarding Transition to a Risk-Informed, Performance-Based Fire Protection Program in Accordance With 10 CFR 50.48(c)	10/07/2016
71152A	Miscellaneous	SEP-APJ-002	Arkansas Nuclear One Primary Containment Leakage Rate Testing (Appendix J) Program Section	9
71152A	Miscellaneous	ULD-0-TOP-14	Containment Isolation and Containment Leak Rate Testing	5
71152A	Procedures	EN-DC-334	Primary Containment Leakage Rate Testing (Appendix J)	4
71152A	Procedures	OP-1104.032	Fire Protection Systems	94
71152A	Procedures	OP-1305.037	Unit 1 Reactor Building Access and Ventilation Leak Rate Testing	13
71153	Corrective Action Documents	CR-ANO-	C-2022-00994	
71153	Procedures	EN-NS-200	Security Reporting Requirements	14